# MEASUREMENT REPORT

## FCC PART 15.407

| | |
|---|---|
| **FCC ID:** | DD4GLXD1Z3 |
| **Applicant:** | Shure Incorporated |
| **Application Type:** | Certification |
| **Product:** | Wireless Bodypack Transmitter |
| **Model No.:** | GLXD1+ Z3 |
| **Trademark:** | SHURE, SHURE |
| **FCC Classification:** | Unlicensed National Information Infrastructure (UNII) |
| **FCC Rule Part(s):** | Part15 Subpart E (Section 15.407) |
| **Test Procedure(s):** | ANSI C63.10-2013, KDB 789033 D02v02r01 |
| **Test Date:** | November 22, 2020 ~ April 07, 2021 |

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

# Revision History

| Report No. | Version | Description | Issue Date | Note |
|---|---|---|---|---|
| 2103RSU004-U2 | Rev. 01 | Initial Report | 04-13-2021 | Valid |
| | | | | |

# CONTENTS

Description Page

# 1. General Information

## 1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

## 1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

## 1.3. Testing Facility

| | | |
|---|---|---|
| ☒ | **Test Site – MRT Suzhou Laboratory** | |
| | **Laboratory Location (Suzhou – Wuzhong)** | |
| | D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China | |
| | **Laboratory Location (Suzhou – SIP)** | |
| | 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China | |
| | **Laboratory Accreditations** | |
| | A2LA: 3628.01 | CNAS: L10551 |
| | FCC: CN1166 | ISED: CN0001 |
| | VCCI: R-20025, G-20034, C-20020, T-20020 | |
| ☐ | **Test Site – MRT Shenzhen Laboratory** | |
| | **Laboratory Location (Shenzhen)** | |
| | 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China | |
| | **Laboratory Accreditations** | |
| | A2LA: 3628.02 | CNAS: L10551 |
| | FCC: CN1284 | ISED: CN0105 |
| ☐ | **Test Site – MRT Taiwan Laboratory** | |
| | **Laboratory Location (Taiwan)** | |
| | No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) | |
| | **Laboratory Accreditations** | |
| | TAF: L3261-190725 | |
| | FCC: 291082, TW3261 | ISED: TW3261 |

# 2. PRODUCT INFORMATION

## 2.1. Equipment Description

| | |
|---|---|
| Product Name | Wireless Bodypack Transmitter |
| Model No. | GLXD1+ Z3 |
| Test Device Label No. | Radiated Sample: 20210301Sample#19<br>Conducted Sample: 20210301Sample#21 |
| Radio Specification | 2.4GHz & 5.8GHz |
| Operating Temperature | 0 ~ 45 °C |
| Power Type | AC/DC Adapter or Rechargeable Li-ion Battery Input |
| Accessories | |
| AC/DC Adapter | Model No.: SBC10-USB15WSUSTWJ<br>Input Power: 100 - 240V ~ 50/60Hz, 0.6A<br>Output Power: 5VDC 3A |
| Rechargeable Li-ion Battery | Model No.: SB904<br>Capacitance: 2420mAh/8.71Wh<br>Rated Voltage: 3.6V |

## 2.2. Radio Specification

| | |
|---|---|
| Frequency Range | 5729 ~ 5846MHz |
| Bandwidth Mode | Full and Half |
| Channel Number | 55 |
| Channel Spacing | 1MHz |
| Type of Modulation | 2-level CPM with Gaussian shaping (basically GFSK) |

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: Total working frequencies refer to operation description.

Note 3: All product information is provided by the manufacturer.

## 2.3. Antennas Details

| Antenna Type | Frequency Band (MHz) | Max Peak Gain (dBi) |
|---|---|---|
| PIFA Antenna | 5729 | -0.20 |
| | 5788 | -0.32 |
| | 5846 | 1.07 |

Note: All antenna information is provided by the manufacturer.

## 2.4. Test Frequencies

| Operating Bands (MHz) | Test Frequency (MHz) | | |
|---|---|---|---|
| | Lowest | Middle | Highest |
| 5729 ~ 5846 | 5729 | 5788 | 5846 |

## 2.5. Test Mode

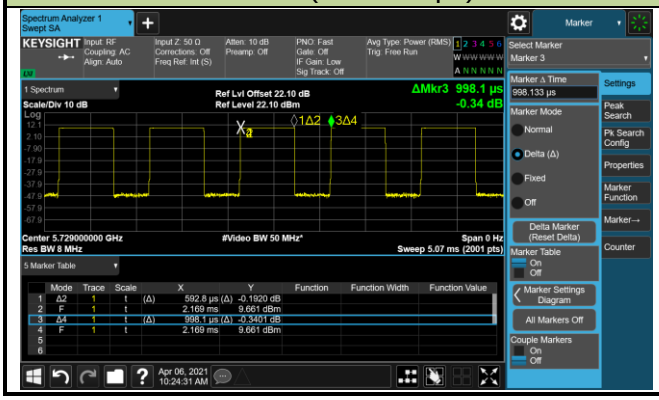
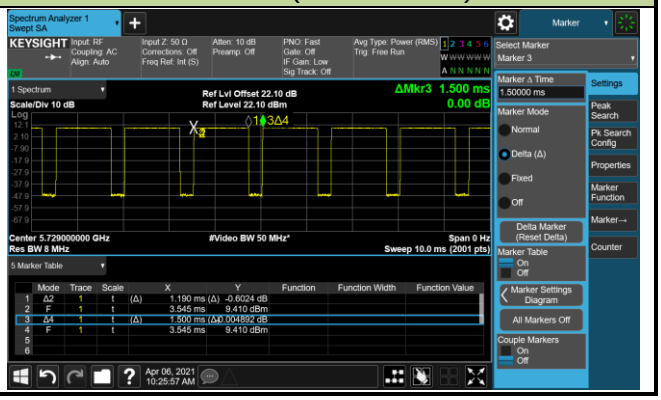
| | |
|---|---|
| Test Mode | Mode 1: Transmit by Full BW |
| | Mode 2: Transmit by Half BW |

Note: Bandwidth abbreviation is BW.

## 2.6. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

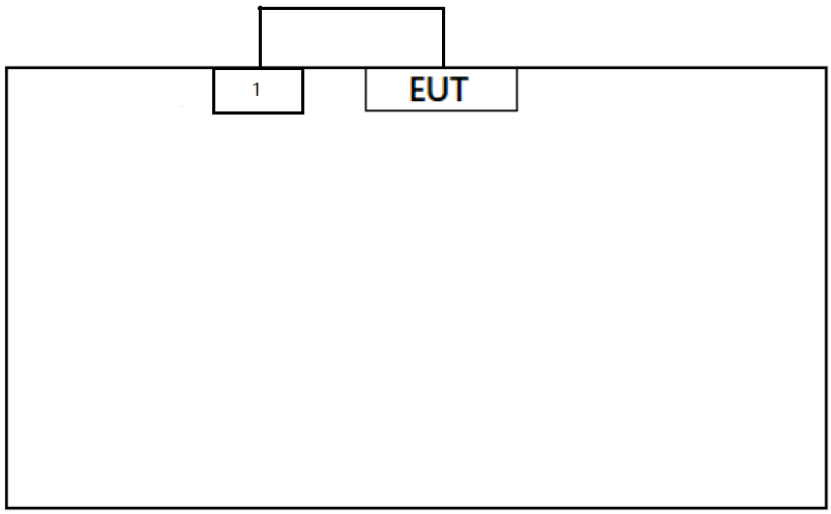
| Test Mode | Duty Cycle |
|---|---|
| Full BW | 59.39% |
| Half BW | 79.33% |

| Duty Cycle (T = Transmission Duration) | |
|---|---|
| Full BW (T =592.8μs) | Half BW (T = 1.190ms) |
|  |  |

Note: This duty cycle was tested based on continuous transmission of signals via commands.
And it was used to calculate VBW setting during radiated spurious emission and band edge testing.

## 2.7. Description of Test Configuration and Software

The device was tested per the guidance ANSI C63.10: 2013 that was used to reference the appropriate EUT setup for radiated spurious emissions and AC line conducted emission testing.




| Product | | Manufacturer | Model No. |
|---|---|---|---|
| 1 | Microphone | Shure | 95A21105 |

Note 1: The test utility software used during testing was “QRCT”, and the version was 3.0.268.0.

Note 2: Detail power setting refer to operation description.

## 2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

## 2.9. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the devices so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

## 2.10. Test Environment Condition

| | |
|---|---|
| Ambient Temperature | 15 ~ 35 °C |
| Relative Humidity | 20 ~ 75 %RH |

# 3. ANTENNA REQUIREMENTS

**Excerpt from §15.203 of the FCC Rules/Regulations:**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

**Conclusion:**

The unit complies with the requirement of §15.203.

# 4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emission (WZ-SR2)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06185 | 1 year | 2022/01/12 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06002 | 1 year | 2021/09/09 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06404 | 1 year | 2021/07/26 |
| Shielding Room | MIX-BEP | Chamber-SR2 | MRTSUE06215 | N/A | N/A |

Conducted Emission (SIP-SR2)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06613 | 1 year | 2021/07/02 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06003 | 1 year | 2021/09/09 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06621 | 1 year | 2021/12/03 |

Radiated Emission (WZ-AC1)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR7 | MRTSUE06001 | 1 year | 2022/01/12 |
| PXA Signal Analyzer | Keysight | N9030B | MRTSUE06395 | 1 year | 2021/08/30 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2021/10/22 |
| Bilog Period Antenna | Schwarzbeck | VULB 9168 | MRTSUE06172 | 1 year | 2021/08/08 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | MRTSUE06023 | 1 year | 2021/09/27 |
| Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06597 | 1 year | 2021/12/14 |
| Microwave System Amplifier | Agilent | 83017A | MRTSUE06076 | 1 year | 2021/11/14 |
| Preamplifier | Schwarzbeck | BBV 9721 | MRTSUE06121 | 1 year | 2021/06/11 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06403 | 1 year | 2021/07/26 |
| Anechoic Chamber | TDK | Chamber-AC1 | MRTSUE06212 | 1 year | 2021/04/30 |

Radiated Emission (WZ-AC2)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| MXE EMI Receiver | Keysight | N9038A | MRTSUE06125 | 1 year | 2021/07/02 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2021/10/22 |
| Bilog Period Antenna | Schwarzbeck | VULB 9162 | MRTSUE06022 | 1 year | 2021/05/26 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | MRTSUE06171 | 1 year | 2021/10/25 |
| Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06597 | 1 year | 2021/12/14 |
| Broadband Coaxial Preamplifier | Schwarzbeck | BBV 9718 | MRTSUE06176 | 1 year | 2021/11/14 |
| Preamplifier | Schwarzbeck | BBV 9721 | MRTSUE06121 | 1 year | 2021/06/11 |
| Thermal Hygrometer | Minggao | ETH529 | MRTSUE06170 | 1 year | 2021/12/08 |
| Anechoic Chamber | RIKEN | Chamber-AC2 | MRTSUE06213 | 1 year | 2021/04/30 |

Radiated Emission (SIP-AC1)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06612 | 1 year | 2021/07/02 |
| EXA Signal Analyzer | Keysight | N9010B | MRTSUE06559 | 1 year | 2021/07/23 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2021/10/22 |
| Bilog Period Antenna | Schwarzbeck | VULB9168 | MRTSUE06645 | 1 year | 2021/08/30 |
| Double Ridged Horn Antenna | R&S | HF907 | MRTSUE06610 | 1 year | 2021/08/30 |
| Preamplifier | EMCI | EMC051845SE | MRTSUE06600 | 1 year | 2021/11/09 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06620 | 1 year | 2021/12/03 |
| Anechoic Chamber | RIKEN | SIP-SIP-AC1 | MRTSUE06554 | 1 year | 2021/12/24 |

Radiated Emission (SIP-AC2)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06613 | 1 year | 2021/07/02 |
| MXA Signal Analyzer | Keysight | N9020B | MRTSUE06604 | 1 year | 2021/09/26 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2021/10/22 |
| Bilog Period Antenna | Schwarzbeck | VULB9168 | MRTSUE06646 | 1 year | 2021/08/30 |
| Horn Antenna | Schwarzbeck | BBHA9120D | MRTSUE06648 | 1 year | 2021/11/26 |
| Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06599 | 1 year | 2021/11/26 |
| Preamplifier | EMCI | EMC051845SE | MRTSUE06644 | 1 year | 2021/11/09 |
| Preamplifier | EMCI | EMC184045SE | MRTSUE06602 | 1 year | 2021/10/12 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06624 | 1 year | 2021/12/03 |
| Anechoic Chamber | RIKEN | SIP-AC2 | MRTSUE06781 | 1 year | 2021/12/24 |

Radiated Emission (SIP-AC3)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESR3 | MRTSUE06612 | 1 year | 2021/07/02 |
| EXA Signal Analyzer | Keysight | N9010B | MRTSUE06559 | 1 year | 2021/07/23 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | MRTSUE06025 | 1 year | 2021/10/22 |
| Bilog Period Antenna | Schwarzbeck | VULB9168 | MRTSUE06647 | 1 year | 2021/08/08 |
| Double Ridged Horn Antenna | R&S | HF907 | MRTSUE06611 | 1 year | 2021/09/13 |
| Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06598 | 1 year | 2021/11/26 |
| Preamplifier | EMCI | EMC012645SE | MRTSUE06642 | 1 year | 2022/01/15 |
| Preamplifier | EMCI | EMC184045SE | MRTSUE06641 | 1 year | 2022/01/15 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06622 | 1 year | 2021/12/03 |
| Anechoic Chamber | RIKEN | SIP-AC3 | MRTSUE06782 | 1 year | 2021/12/24 |

Conducted Test Equipment (WZ-TR3)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| EXA Signal Analyzer | Agilent | N9020A | MRTSUE06106 | 1 year | 2021/04/14 |
| EXA Signal Analyzer | Keysight | N9010B | MRTSUE06607 | 1 year | 2022/01/07 |
| Signal Analyzer | R&S | FSV40 | MRTSUE06218 | 1 year | 2021/04/14 |
| Power Meter | Agilent | U2021XA | MRTSUE06030 | 1 year | 2021/10/22 |
| USB wideband power sensor | Keysight | U2021XA | MRTSUE06446 | 1 year | 2021/08/30 |
| USB wideband power sensor | Keysight | U2021XA | MRTSUE06447 | 1 year | 2021/08/08 |
| Bluetooth Test Set | Anritsu | MT8852B-042 | MRTSUE06389 | 1 year | 2021/06/11 |
| Audio Analyzer | Agilent | U8903B | MRTSUE06143 | 1 year | 2021/06/11 |
| Modulation Analyzer | HP | HP8901A | MRTSUE06098 | 1 year | 2021/09/26 |
| Wideband Radio Communication Tester | R&S | CMW 500 | MRTSUE06243 | 1 year | 2021/10/20 |
| DC Power Supply | GWINSTEK | DPS-3303C | MRTSUE06064 | N/A | N/A |
| Temperature & Humidity Chamber | BAOYT | BYH-150CL | MRTSUE06051 | 1 year | 2021/10/22 |
| Thermal Hygrometer | testo | 608-H1 | MRTSUE06401 | 1 year | 2021/07/26 |
| Attenuator | MVE | 6dB | MRTSUE06534 | 1 year | N/A |
| Attenuator | MVE | 10dB | MRTSUE06543 | 1 year | N/A |

Conducted Test Equipment (SIP-SR5)

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|---|---|---|---|---|---|
| Signal Analyzer | R&S | FSV40 | MRTSUE06218 | 1 year | 2021/04/14 |
| PXA Signal Analyzer | Keysight | N9030B | MRTSUE06395 | 1 year | 2021/08/30 |
| USB wideband power sensor | Agilent | U2021XA | MRTSUE06595 | 1 year | 2021/09/26 |
| USB wideband power sensor | Agilent | U2021XA | MRTSUE06596 | 1 year | 2021/09/26 |
| Wideband Radio Communication Tester | R&S | CMW 500 | MRTSUE06243 | 1 year | 2021/10/20 |
| Bluetooth Test Set | Anritsu | MT8852B-042 | MRTSUE06389 | 1 year | 2021/06/11 |
| Temperature Chamber | BAOYT | BYG-408CS | MRTSUE06847 | 1 year | 2022/02/23 |
| Thermal Hygrometer | testo | 622 | MRTSUE06629 | 1 year | 2021/11/25 |
| Attenuator | MVE | 6dB | MRTSUE06534 | 1 year | N/A |
| Attenuator | MVE | 10dB | MRTSUE06543 | 1 year | N/A |

| Software | Version | Function |
|---|---|---|
| EMI Software | V3 | EMI Test Software |

# 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

| |
|---|
| AC Conducted Emission Measurement |
| Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>9kHz~150kHz: 3.74dB<br>150kHz~30MHz: 3.44dB |
| Radiated Disturbance |
| Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>Horizontal:<br>30MHz~300MHz: 5.04dB<br>300MHz~1GHz: 4.95dB<br>1GHz~40GHz: 6.40dB<br>Vertical:<br>30MHz~300MHz: 5.24dB<br>300MHz~1GHz: 6.03dB<br>1GHz~40GHz: 6.40dB |
| Spurious Emissions, Conducted |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>0.78dB |
| Output Power |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>1.13dB |
| Power Spectrum Density |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>1.15dB |
| Occupied Bandwidth |
| Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):<br>0.28% |

# 6. TEST RESULT

## 6.1. Summary

| FCC Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|---|---|---|---|---|---|
| 15.407(a) | 26dB Bandwidth | N/A | Conducted | N/A | Section 6.2 |
| 15.407(e) | 6dB Bandwidth | ≥ 500kHz | | Pass | Section 6.3 |
| 15.407(a) (3) | Maximum Conducted Output Power | ≤1W | | Pass | Section 6.4 |
| 15.407(a) (3) | Power Spectral Density | ≤30dBm/500kHz | | Pass | Section 6.5 |
| 15.407(g) | Frequency Stability | N/A | | N/A | Section 6.6 |
| 15.407(b) (4)(i) | Undesirable Emissions | ≤ -27dBm/MHz EIRP Detail see section 6.8 | Radiated | Pass | Section 6.7 Section 6.8 |
| 15.205, 15.209 15.407(b)(5), (6), (7) | General Field Strength (Restricted Bands and Radiated Emission) | Emissions in restricted bands must meet the radiated limits detailed in15.209 | | Pass | |
| 15.35(c) | Duty Cycle Factor | N/A | | N/A | Section 6.9 |
| 15.207 | AC Conducted Emissions 150kHz-30MHz | < FCC 15.207 limits | Line Conducted | Pass | Section 6.10 |

**Notes:**

1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
3) “N/A” means that the test item is not applicable, and the details refer to relevant section.

## 6.2. Emission Bandwidth Measurement

### 6.2.1.Test Limit

N/A

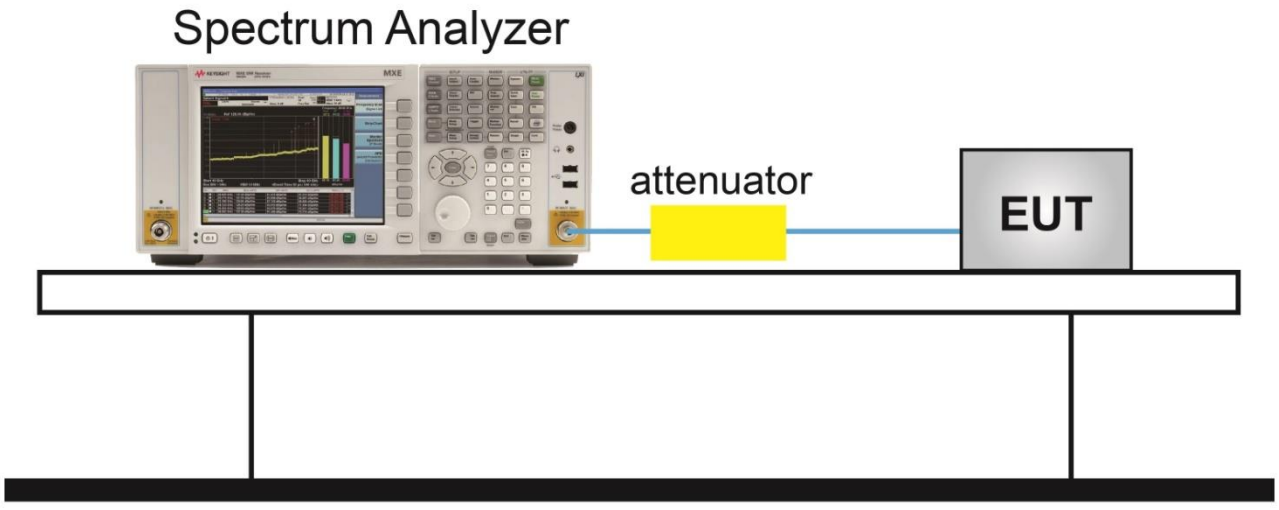
### 6.2.2.Test Procedure Used

KDB 789033 D02v02r01 -Section C.1

### 6.2.3.Test Setting

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### 6.2.4.Test Setup



### 6.2.5.Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/04/06 | | |

| Test Mode | Frequency (MHz) | 26dB Bandwidth (MHz) |
|---|---|---|
| Full BW | 5729 | 4.00 |
| Full BW | 5788 | 4.00 |
| Full BW | 5846 | 4.00 |
| Half BW | 5729 | 2.00 |
| Half BW | 5788 | 2.00 |
| Half BW | 5846 | 2.00 |

## Full BW 26dB Bandwidth

### Channel 149 (5729MHz)

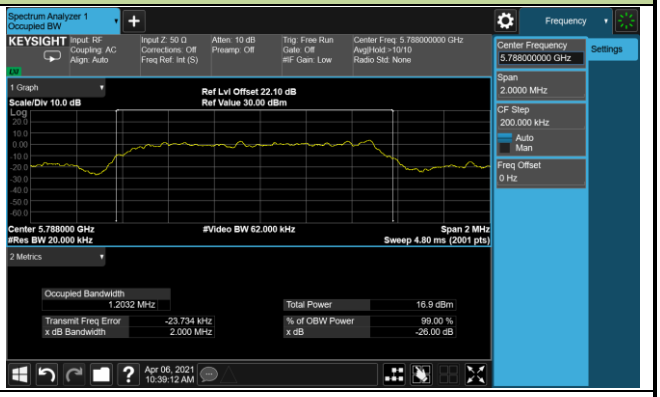

### Channel 157 (5788MHz)


### Channel 165 (5846MHz)


## Half BW 26dB Bandwidth

### Channel 149 (5729MHz)


### Channel 157 (5788MHz)




### Channel 165 (5846MHz)

## 6.3. 6dB Bandwidth Measurement

### 6.3.1.Test Limit

The minimum 6dBbandwidth shall be at least 500 kHz.

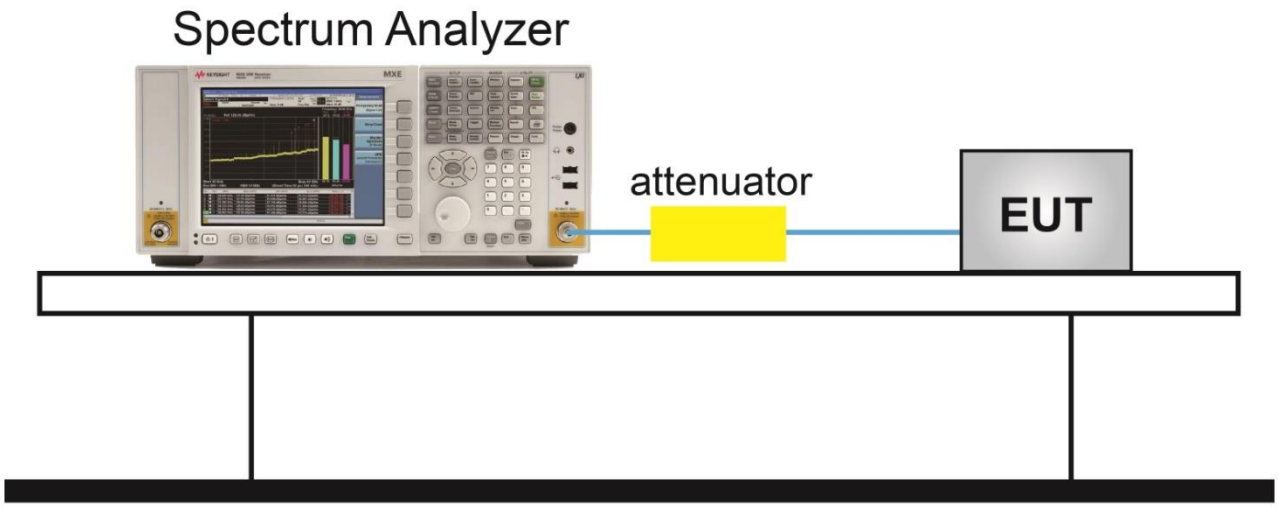
### 6.3.2.Test Procedure Used

KDB 789033 D02v02r01 - Section C.2

### 6.3.3.Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = Max hold.
6. Sweep = Auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.3.4.Test Setup



### 6.3.5.Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/04/06 | | |

| Test Mode | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|---|---|---|---|---|
| Full BW | 5729 | 1.983 | ≥ 0.5 | Pass |
| Full BW | 5788 | 1.983 | ≥ 0.5 | Pass |
| Full BW | 5846 | 1.983 | ≥ 0.5 | Pass |
| Half BW | 5729 | 1.025 | ≥ 0.5 | Pass |
| Half BW | 5788 | 1.029 | ≥ 0.5 | Pass |
| Half BW | 5846 | 1.026 | ≥ 0.5 | Pass |

## Full BW 6dB Bandwidth

### Channel 149 (5729MHz)


### Channel 157 (5788MHz)


### Channel 165 (5846MHz)


## Half BW 6dB Bandwidth

### Channel 149 (5729MHz)


### Channel 157 (5788MHz)


### Channel 165 (5846MHz)

## 6.4. Output Power Measurement

### 6.4.1.Test Limit

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

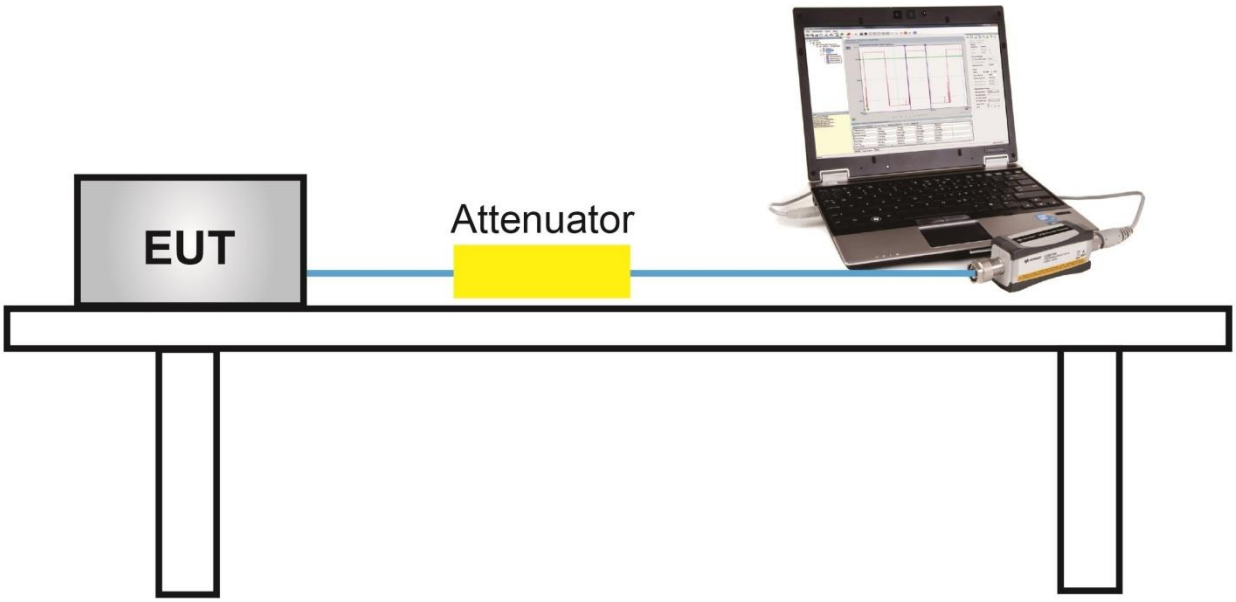
### 6.4.2.Test Procedure Used

KDB 789033D02v02r01- Section E)3)b) Method PM-G

### 6.4.3.Test Setting

Average power measurements were perform only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 6.4.4.Test Setup



### 6.4.5.Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/03/24 | | |

| Test Mode | Freq. (MHz) | Average Power (dBm) | Average Power Limit (dBm) | Result |
|---|---|---|---|---|
| Full BW | 5729 | 9.92 | ≤ 30.00 | Pass |
| Full BW | 5788 | 9.76 | ≤ 30.00 | Pass |
| Full BW | 5846 | 8.83 | ≤ 30.00 | Pass |
| Half BW | 5729 | 9.73 | ≤ 30.00 | Pass |
| Half BW | 5788 | 9.58 | ≤ 30.00 | Pass |
| Half BW | 5846 | 8.57 | ≤ 30.00 | Pass |

## 6.5. Power Spectral Density Measurement

### 6.5.1.Test Limit

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

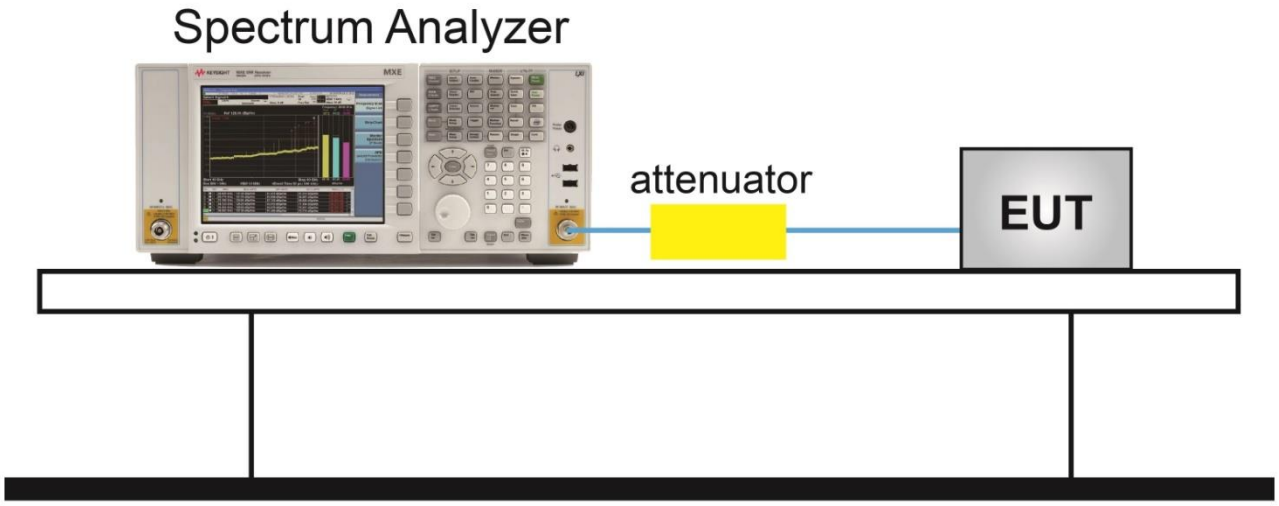
### 6.5.2.Test Procedure Used

KDB 789033 D02v02r01 - Section F

### 6.5.3.Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
   RBW = 510kHz
   VBW = 1.5MHz
3. Number of sweep points ≥ 2 × (span / RBW)
4. Detector = Power averaging (Average)
5. Trace average at least 100 traces in power averaging (rms) mode
6. Sweep time = Auto
7. Trigger = Free run
8. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
9. Add 10*log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10*log(1/0.25) = 6 dB if the duty cycle is 25 percent.

### 6.5.4.Test Setup



### 6.5.5.Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/04/06 | Test Item | Power Spectral Density |

| Test Mode | Freq. (MHz) | Duty Cycle (%) | PSD (dBm/ 500kHz) | Final PSD (dBm/ 500kHz) | Limit (dBm/ 500kHz) | Result |
|---|---|---|---|---|---|---|
| Full BW | 5729 | 59.39 | 2.24 | 4.50 | ≤ 30.00 | Pass |
| Full BW | 5788 | 59.39 | 2.46 | 4.72 | ≤ 30.00 | Pass |
| Full BW | 5846 | 59.39 | 2.16 | 4.42 | ≤ 30.00 | Pass |
| Half BW | 5729 | 79.33 | 5.70 | 6.71 | ≤ 30.00 | Pass |
| Half BW | 5788 | 79.33 | 6.09 | 7.10 | ≤ 30.00 | Pass |
| Half BW | 5846 | 79.33 | 4.96 | 5.96 | ≤ 30.00 | Pass |

Note:

When EUT duty cycle > 98%, Final PSD (dBm / 500kHz) = PSD (dBm / 500kHz).

When EUT duty cycle < 98%, Final PSD (dBm / 500kHz) = PSD (dBm / 500kHz) + 10*log(1/Duty cycle)

## Full BW Power Spectral Density

### Channel 149 (5729MHz)

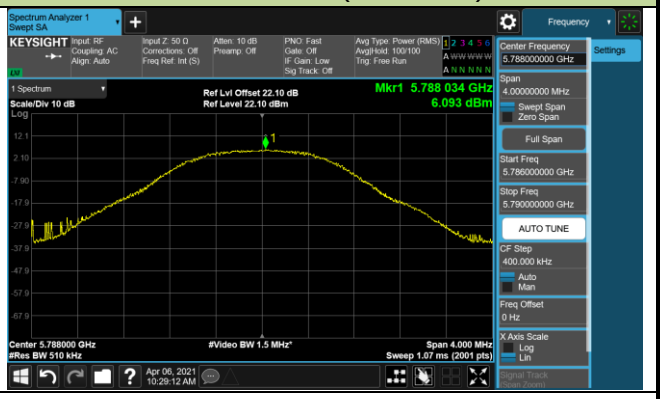

### Channel 157 (5788MHz)


### Channel 165 (5846MHz)

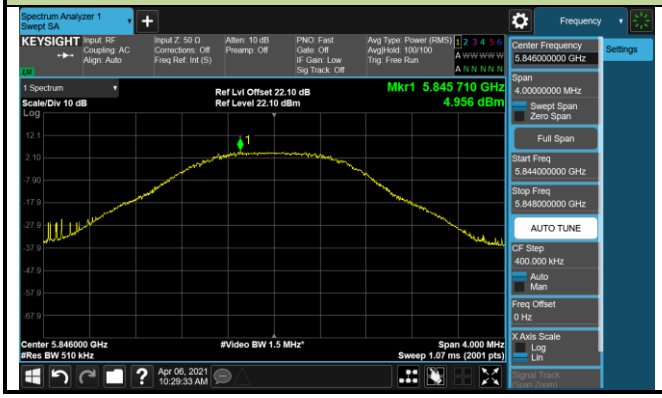

## Half BW Power Spectral Density

### Channel 149 (5729MHz)


### Channel 157 (5788MHz)




### Channel 165 (5846MHz)



## 6.6. Frequency Stability Measurement

### 6.6.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 6.6.2.Test Procedure Used

**Frequency Stability Under Temperature Variations:**

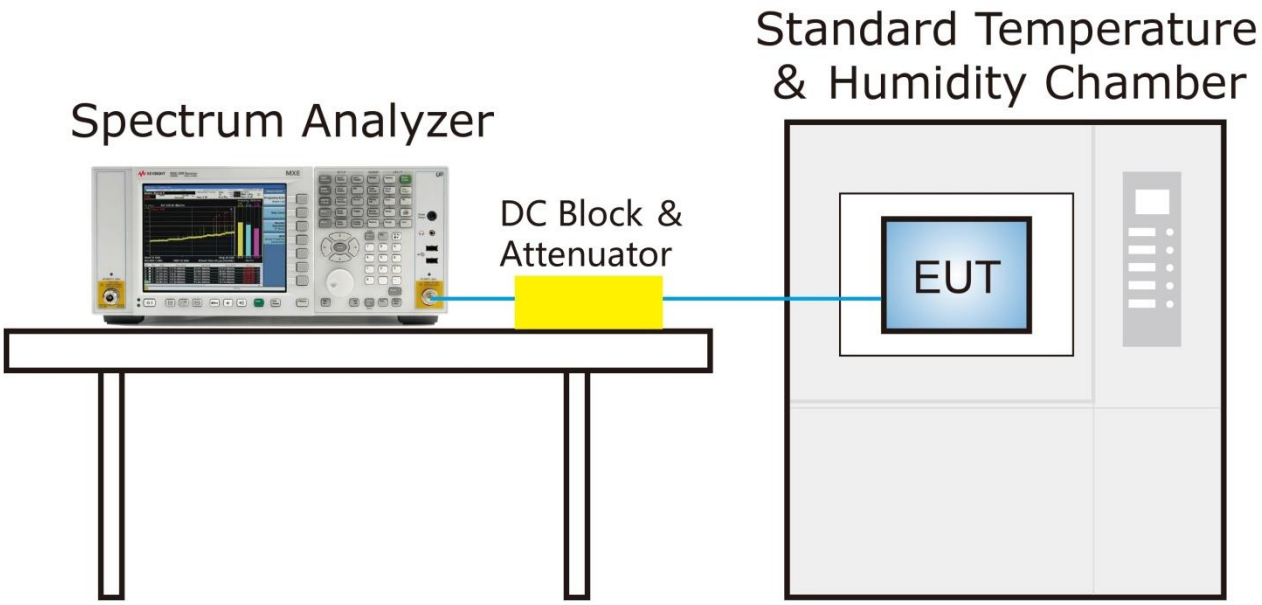
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

**Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change. For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

### 6.6.3.Test Setup



### 6.6.4.Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/04/06 | Test Mode | 5729MHz (Carrier Mode) |

| Voltage (%) | Power ($V_{DC}$) | Temp (°C) | Frequency Tolerance (ppm) | | | |
|---|---|---|---|---|---|---|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes |
| 100% | 3.60 | - 30 | -3.51 | -3.37 | -3.40 | -3.38 |
| | | - 20 | -3.08 | -3.03 | -3.16 | -3.13 |
| | | - 10 | -2.46 | -2.34 | -2.31 | -2.32 |
| | | 0 | -2.59 | -2.79 | -2.83 | -2.79 |
| | | + 10 | -3.66 | -3.59 | -3.55 | -3.60 |
| | | + 20 | -5.02 | -5.03 | -5.00 | -4.91 |
| | | + 30 | -7.02 | -6.85 | -7.02 | -7.09 |
| | | + 40 | -8.58 | -8.70 | -8.75 | -8.65 |
| | | + 50 | -9.04 | -9.10 | -9.13 | -9.00 |
| Battery Endpoint | 3.06 | + 20 | -5.77 | -5.77 | -5.62 | -5.55 |

Note 1: Frequency Tolerance (ppm) = {[Measured Frequency (MHz) - Declared Frequency (MHz)] / Declared Frequency (MHz)} *$10^6$.

Note 2: Battery upper voltage is 3.6Vdc, battery endpoint voltage is 3.06Vdc, which are declared by the manufacturer.

## 6.7. Radiated Spurious Emission Measurement

### 6.7.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency (MHz) | Field Strength (μV/m) | Measured Distance (m) |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 6.7.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

### 6.7.3.Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency | RBW |
|---|---|
| 9 ~ 150 kHz | 200 ~ 300 Hz |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000 MHz | 1 MHz |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

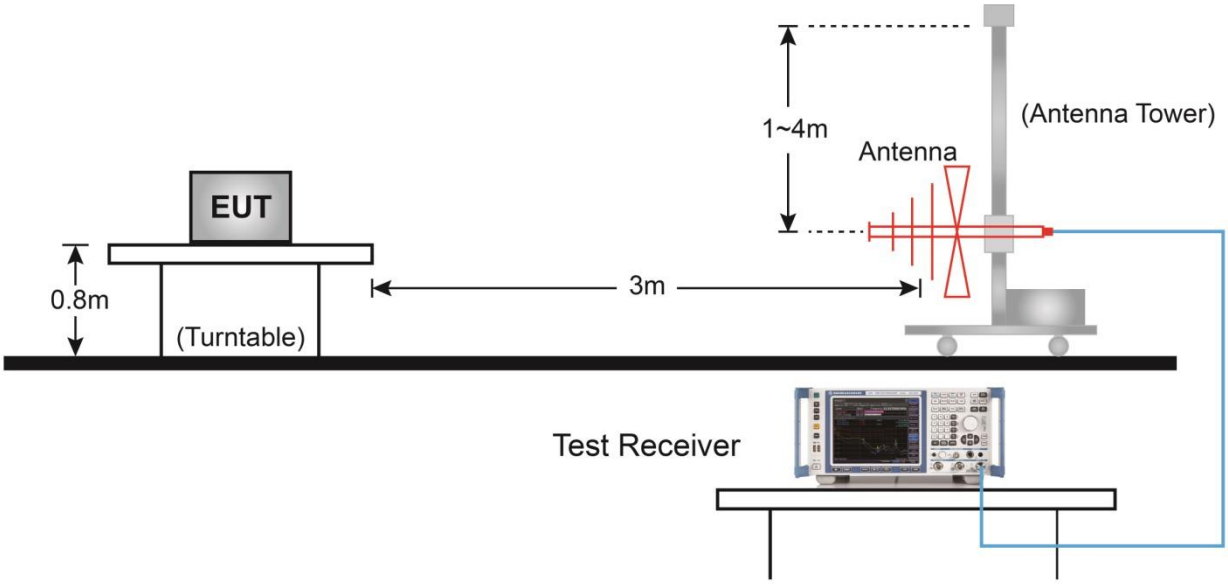
**Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW;If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

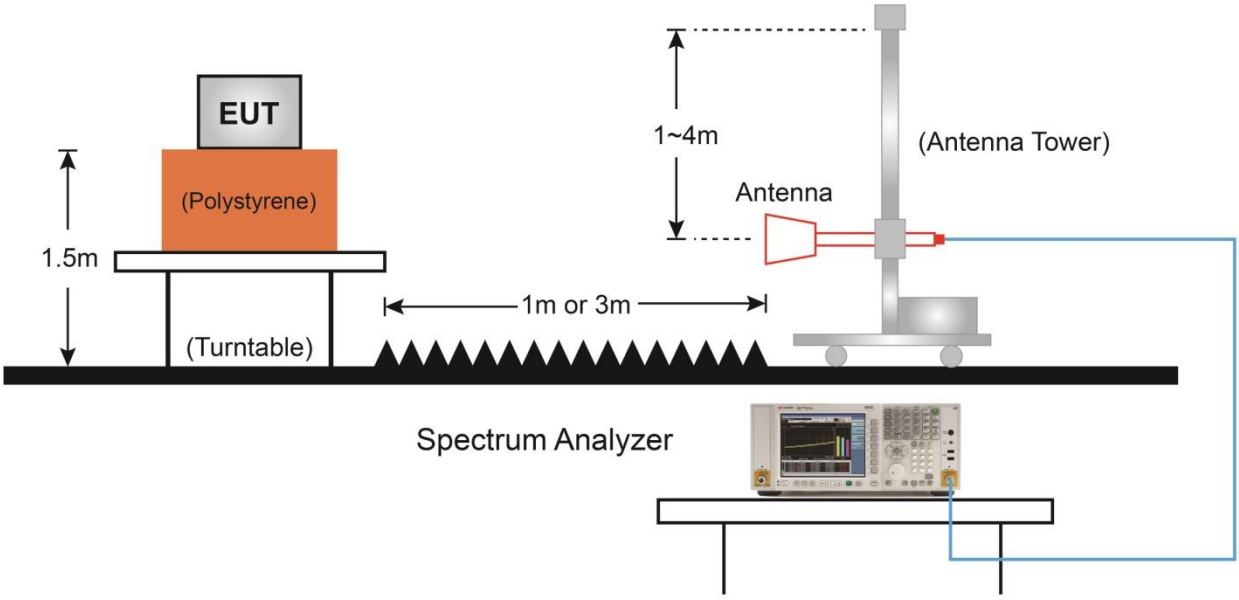
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

### 6.7.4.Test Setup

Below 1GHz Test Setup:




Above1GHz Test Setup:



### 6.7.5.Test Result

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5729MHz |
| Test Mode | Full BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 14455.5 | 50.8 | -0.5 | 50.3 | 68.2 | -17.9 | Peak | Horizontal |
| | 15849.5 | 47.4 | 2.1 | 49.5 | 74 | -24.5 | Peak | Horizontal |
| * | 17090.5 | 47.7 | 4.0 | 51.7 | 68.2 | -16.5 | Peak | Horizontal |
| | 17847.0 | 47.6 | 4.6 | 52.2 | 74 | -21.8 | Peak | Horizontal |
| | 15900.5 | 49.2 | 1.4 | 50.6 | 74 | -23.4 | Peak | Vertical |
| * | 16555.0 | 48.5 | 2.8 | 51.3 | 68.2 | -16.9 | Peak | Vertical |
| * | 17192.5 | 47.7 | 4.1 | 51.8 | 68.2 | -16.4 | Peak | Vertical |
| | 18000.0 | 47.3 | 5.1 | 52.4 | 74 | -21.6 | Peak | Vertical |

Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5788MHz |
| Test Mode | Full BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 14770.0 | 49.7 | 0.3 | 50.0 | 68.2 | -18.2 | Peak | Horizontal |
| | 15849.5 | 47.9 | 2.1 | 50.0 | 74 | -24.0 | Peak | Horizontal |
| * | 17184.0 | 48.2 | 4.0 | 52.2 | 68.2 | -16.0 | Peak | Horizontal |
| | 17889.5 | 47.5 | 4.8 | 52.3 | 74 | -21.7 | Peak | Horizontal |
| | 15764.5 | 47.6 | 2.1 | 49.7 | 74 | -24.3 | Peak | Vertical |
| * | 16215.0 | 48.9 | 1.6 | 50.5 | 68.2 | -17.7 | Peak | Vertical |
| * | 17175.5 | 47.9 | 4.0 | 51.9 | 68.2 | -16.3 | Peak | Vertical |
| | 17898.0 | 47.5 | 4.9 | 52.4 | 74 | -21.6 | Peak | Vertical |

Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5846MHz |
| Test Mode | Full BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 15849.5 | 47.8 | 2.1 | 49.9 | 74 | -24.1 | Peak | Horizontal |
| * | 16733.5 | 47.5 | 3.7 | 51.2 | 68.2 | -17.0 | Peak | Horizontal |
| * | 17328.5 | 47.8 | 3.9 | 51.7 | 68.2 | -16.5 | Peak | Horizontal |
| | 17940.5 | 46.6 | 4.9 | 51.5 | 74 | -22.5 | Peak | Horizontal |
| | 15654.0 | 49.1 | 0.9 | 50.0 | 74 | -24.0 | Peak | Vertical |
| * | 16597.5 | 48.6 | 3.0 | 51.6 | 68.2 | -16.6 | Peak | Vertical |
| * | 17439.0 | 48.0 | 4.4 | 52.4 | 68.2 | -15.8 | Peak | Vertical |
| | 17923.5 | 46.8 | 4.9 | 51.7 | 74 | -22.3 | Peak | Vertical |

Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5729MHz |
| Test Mode | Half BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| * | 14838.0 | 49.1 | 0.2 | 49.3 | 68.2 | -18.9 | Peak | Horizontal |
| | 15756.0 | 47.5 | 2.1 | 49.6 | 74 | -24.4 | Peak | Horizontal |
| * | 17371.0 | 47.7 | 4.3 | 52.0 | 68.2 | -16.2 | Peak | Horizontal |
| | 17923.5 | 46.8 | 4.9 | 51.7 | 74 | -22.3 | Peak | Horizontal |
| | 15849.5 | 48.1 | 2.1 | 50.2 | 74 | -23.8 | Peak | Vertical |
| * | 16742.0 | 47.4 | 3.8 | 51.2 | 68.2 | -17.0 | Peak | Vertical |
| * | 17481.5 | 47.4 | 4.4 | 51.8 | 68.2 | -16.4 | Peak | Vertical |
| | 17745.0 | 48.3 | 4.4 | 52.7 | 74 | -21.3 | Peak | Vertical |

Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5788MHz |
| Test Mode | Half BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 15756.0 | 47.8 | 2.1 | 49.9 | 74 | -24.1 | Peak | Horizontal |
| * | 16801.5 | 48.0 | 3.6 | 51.6 | 68.2 | -16.6 | Peak | Horizontal |
| * | 17515.5 | 48.5 | 4.2 | 52.7 | 68.2 | -15.5 | Peak | Horizontal |
| | 17906.5 | 46.9 | 4.9 | 51.8 | 74 | -22.2 | Peak | Horizontal |
| | 15569.0 | 49.3 | 1.0 | 50.3 | 74 | -23.7 | Peak | Vertical |
| * | 16410.5 | 47.7 | 3.0 | 50.7 | 68.2 | -17.5 | Peak | Vertical |
| * | 17311.5 | 47.8 | 4.0 | 51.8 | 68.2 | -16.4 | Peak | Vertical |
| | 18000.0 | 47.2 | 5.1 | 52.3 | 74 | -21.7 | Peak | Vertical |

Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

| Test Site | SIP-AC1 | Test Engineer | Stephen Dong |
|---|---|---|---|
| Test Date | 2020/11/21~2021/11/24 | Test Frequency | 5846MHz |
| Test Mode | Half BW | | |
| Remark | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. | | |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|---|---|---|---|---|---|---|---|---|
| | 15926.0 | 47.7 | 1.5 | 49.2 | 74 | -24.8 | Peak | Horizontal |
| * | 16402.0 | 47.6 | 3.2 | 50.8 | 68.2 | -17.4 | Peak | Horizontal |
| * | 17668.5 | 47.6 | 4.4 | 52.0 | 68.2 | -16.2 | Peak | Horizontal |
| | 17949.0 | 47.1 | 4.9 | 52.0 | 74 | -22.0 | Peak | Horizontal |
| | 15441.5 | 48.3 | 1.4 | 49.7 | 74 | -24.3 | Peak | Vertical |
| * | 16546.5 | 48.3 | 2.9 | 51.2 | 68.2 | -17.0 | Peak | Vertical |
| * | 17175.5 | 47.4 | 4.0 | 51.4 | 68.2 | -16.8 | Peak | Vertical |
| | 17949.0 | 47.1 | 4.9 | 52.0 | 74 | -22.0 | Peak | Vertical |

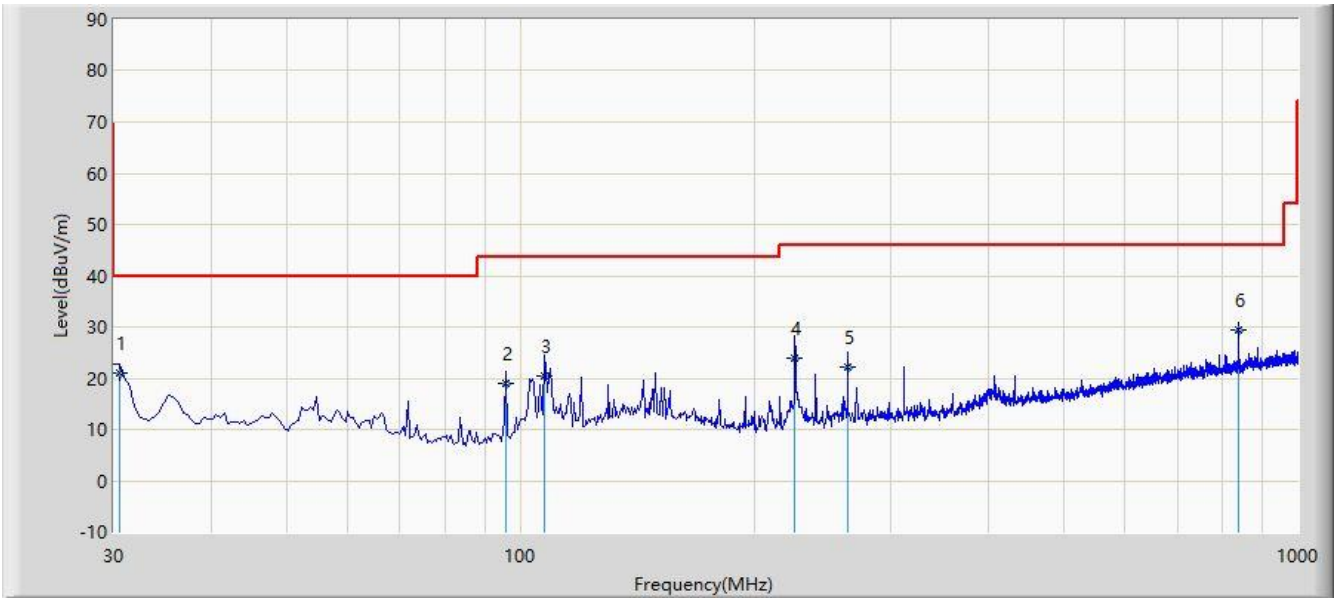
Test Mode 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Test Mode 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

**The Worst Case of Radiated Emission below 1GHz:**

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/04/07 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_VULB 9168 _30-1000MHz | Polarity: Horizontal |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| **Worst Case Mode**: Transmit by Half mode bandwidth at channel 5788MHz | |



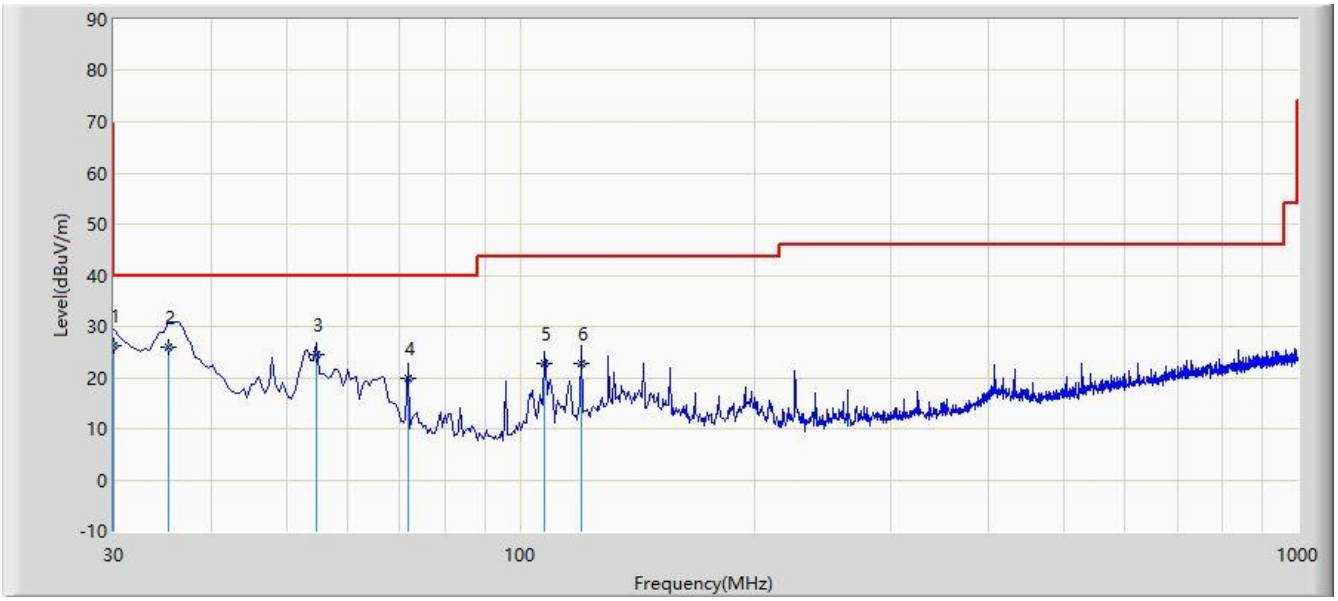

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 30.485 | 20.889 | 4.200 | -19.111 | 40.000 | 16.689 | QP |
| 2 | | | 95.960 | 18.909 | 6.200 | -24.591 | 43.500 | 12.709 | QP |
| 3 | | | 107.600 | 20.519 | 5.900 | -22.981 | 43.500 | 14.619 | QP |
| 4 | | | 225.455 | 23.892 | 9.300 | -22.108 | 46.000 | 14.592 | QP |
| 5 | | | 263.770 | 22.223 | 5.100 | -23.777 | 46.000 | 17.123 | QP |
| 6 | | * | 839.950 | 29.457 | 1.100 | -16.543 | 46.000 | 28.357 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

| | |
|---|---|
| Site: AC3 | Time: 2021/04/07 - 15:08 |
| Limit: FCC_Part15.209_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_VULB 9168 _30-1000MHz | Polarity: Vertical |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| **Worst Case Mode**: Transmit by Half mode bandwidth at channel 5788MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 30.000 | 26.103 | 9.300 | -13.897 | 40.000 | 16.803 | QP |
| 2 | | | 35.335 | 25.950 | 8.900 | -14.050 | 40.000 | 17.051 | QP |
| 3 | | | 54.735 | 24.512 | 6.800 | -15.488 | 40.000 | 17.712 | QP |
| 4 | | | 71.710 | 19.783 | 4.600 | -20.217 | 40.000 | 15.183 | QP |
| 5 | | | 107.600 | 22.719 | 8.100 | -20.781 | 43.500 | 14.619 | QP |
| 6 | | | 119.725 | 22.797 | 7.500 | -20.703 | 43.500 | 15.297 | QP |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

## 6.8. Radiated Restricted Band Edge Measurement

### 6.8.1.Test Limit

**For 15.205Requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency (MHz) | Frequency (MHz) | Frequency (MHz) | Frequency (GHz) |
|---|---|---|---|
| 0.090 - 0.110 | 16.42-16.423 | 399.9 - 410 | 4.5-5.15 |
| [1] 0.495 - 0.505 | 16.69475-16.69525 | 608 - 614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960 - 1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5 -25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660 - 1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123 - 138 | 2200 - 2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310–2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5 - 2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690 - 2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260 - 3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332 - 3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600 - 4400 | ([2]) |
| 13.36-13.41 | -- | -- | -- |

**For 15.407(b) Requirement:**

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with

both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency (MHz) | Field Strength (μV/m) | Measured Distance (m) |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 6.8.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

### 6.8.3.Test Setting

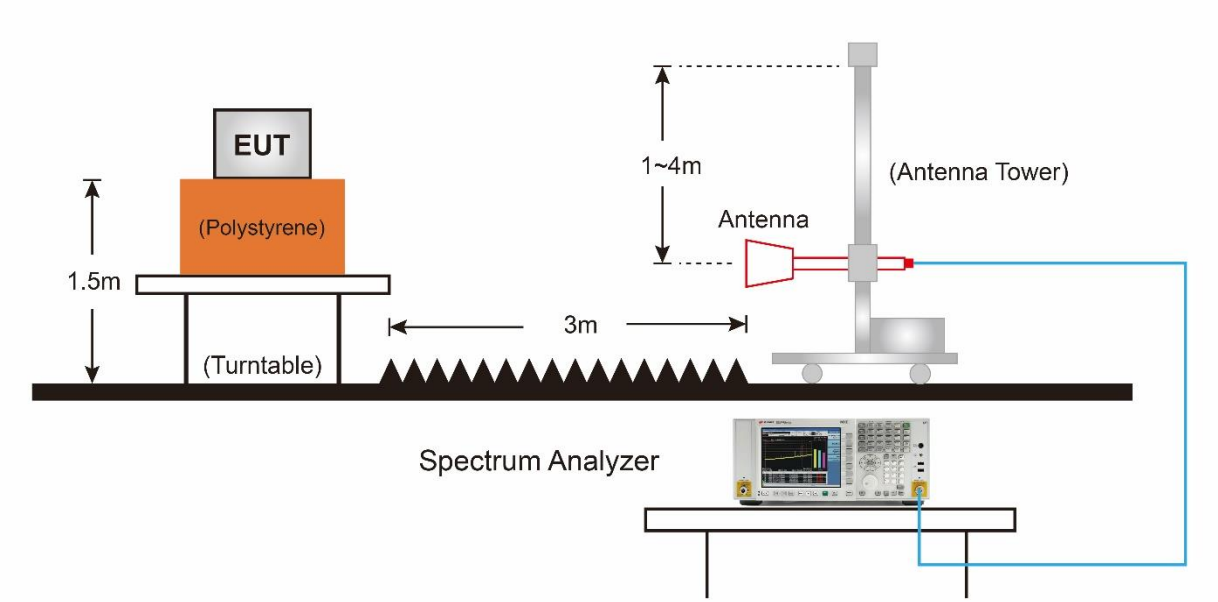
**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

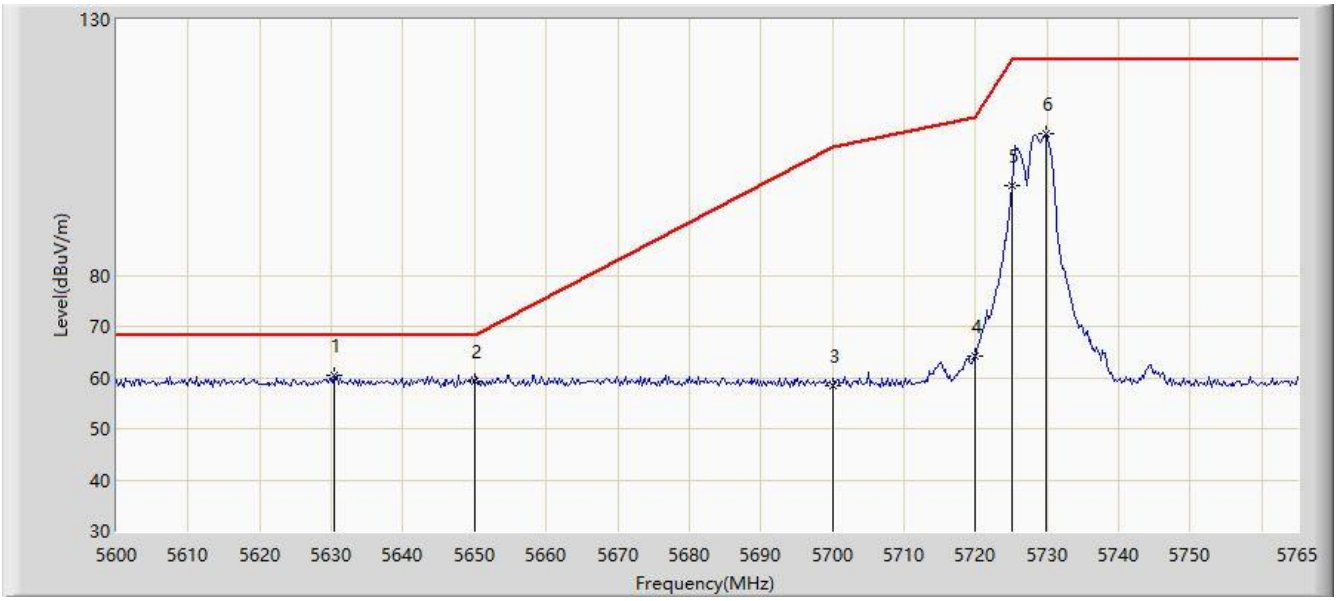
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz
4. If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

### 6.8.4.Test Setup



### 6.8.5.Test Result

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:13 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Horizontal |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Full BW at channel 5729MHz | |

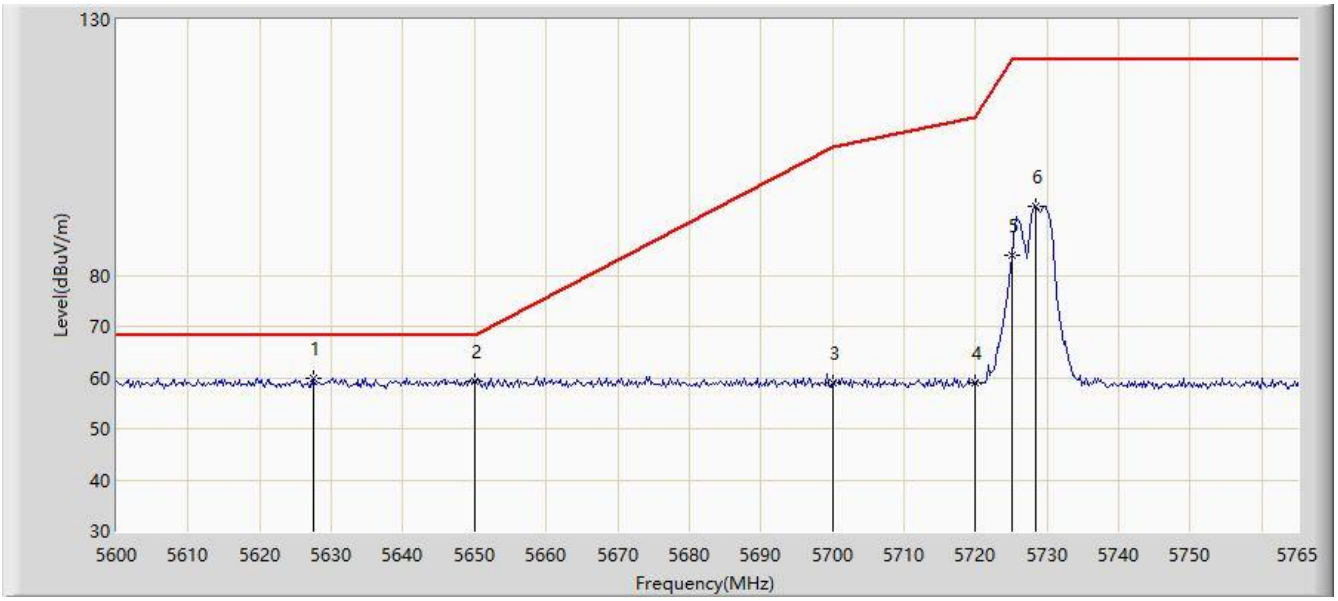



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5630.400 | 60.365 | 68.580 | -7.835 | 68.200 | -8.216 | PK |
| 2 | | | 5650.000 | 59.338 | 67.547 | -8.862 | 68.200 | -8.209 | PK |
| 3 | | | 5700.000 | 58.530 | 66.943 | -46.670 | 105.200 | -8.414 | PK |
| 4 | | | 5720.000 | 64.107 | 72.444 | -46.693 | 110.800 | -8.336 | PK |
| 5 | | | 5725.000 | 97.569 | 105.881 | -24.631 | 122.200 | -8.312 | PK |
| 6 | | | 5729.800 | 107.577 | 115.914 | N/A | N/A | -8.336 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:23 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Vertical |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Full BW at channel 5729MHz | |

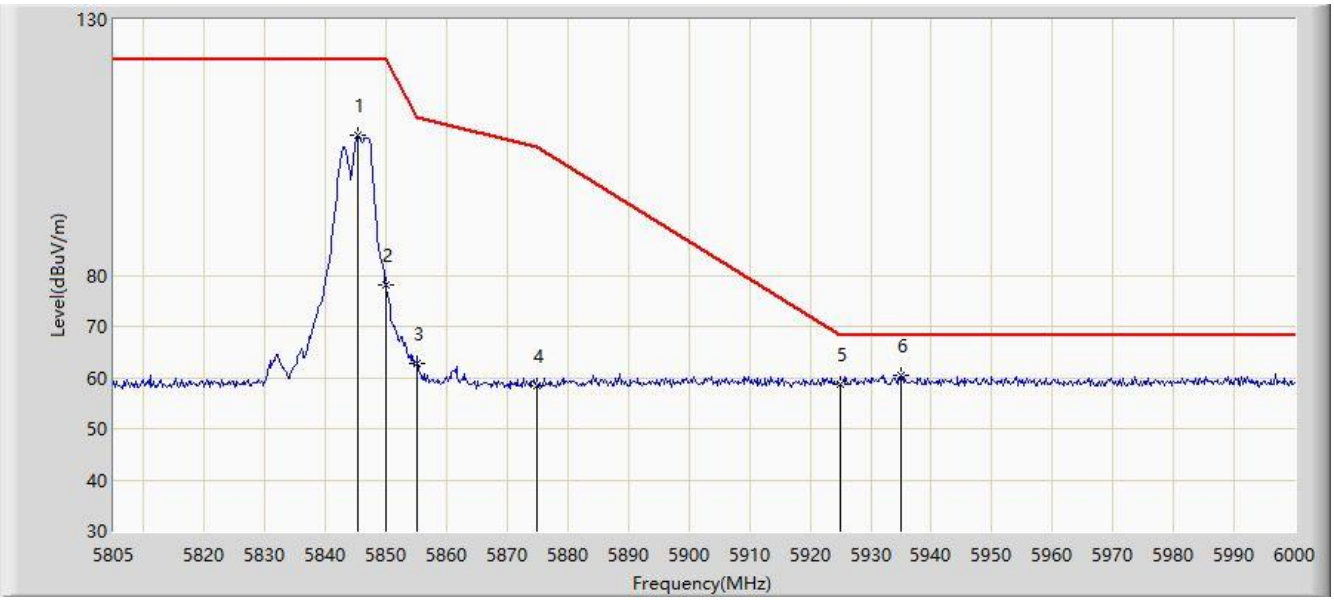



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5627.600 | 59.953 | 68.183 | -8.247 | 68.200 | -8.230 | PK |
| 2 | | | 5650.000 | 59.160 | 67.369 | -9.040 | 68.200 | -8.209 | PK |
| 3 | | | 5700.000 | 59.020 | 67.433 | -46.180 | 105.200 | -8.414 | PK |
| 4 | | | 5720.000 | 59.127 | 67.464 | -51.673 | 110.800 | -8.336 | PK |
| 5 | | | 5725.000 | 83.895 | 92.207 | -38.305 | 122.200 | -8.312 | PK |
| 6 | | | 5728.400 | 93.526 | 101.852 | N/A | N/A | -8.326 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:38 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Horizontal |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Full BW at channel 5846MHz | |

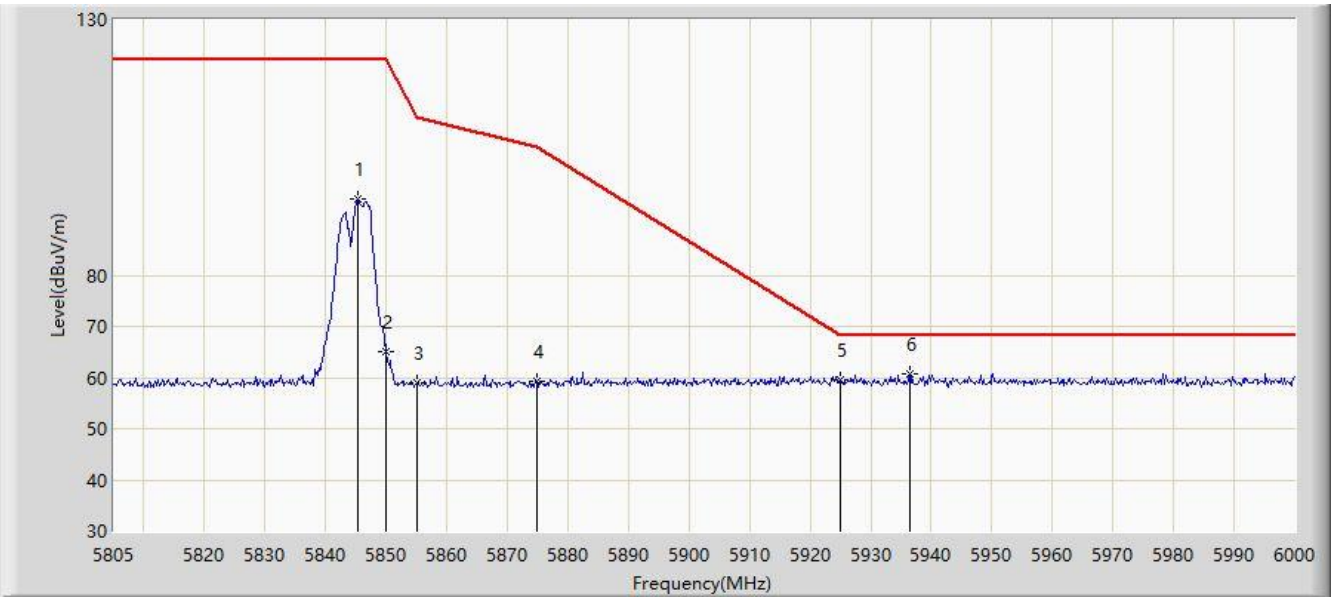



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5845.200 | 107.315 | 115.404 | N/A | N/A | -8.088 | PK |
| 2 | | | 5850.000 | 78.193 | 86.297 | -44.007 | 122.200 | -8.104 | PK |
| 3 | | | 5855.000 | 62.771 | 70.891 | -48.029 | 110.800 | -8.119 | PK |
| 4 | | | 5875.000 | 58.532 | 66.525 | -46.668 | 105.200 | -7.993 | PK |
| 5 | | | 5925.000 | 58.825 | 66.631 | -9.375 | 68.200 | -7.805 | PK |
| 6 | | * | 5935.000 | 60.331 | 68.067 | -7.869 | 68.200 | -7.736 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:42 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Vertical |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Full BW at channel 5846MHz | |

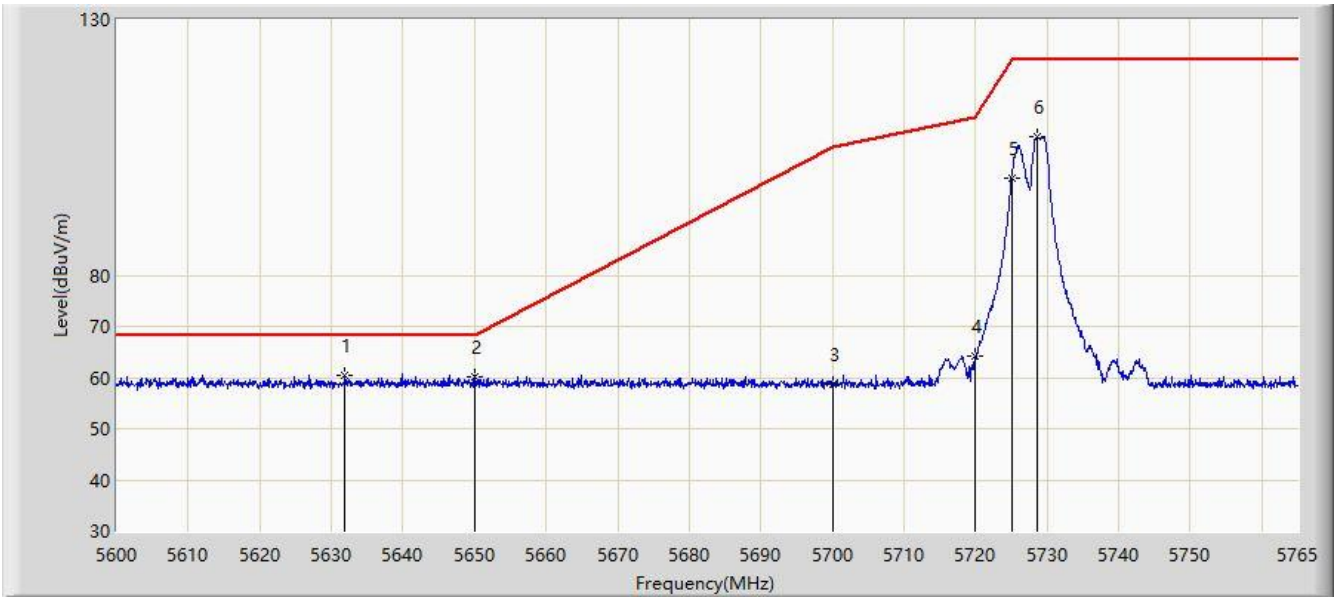



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5845.200 | 94.922 | 103.011 | N/A | N/A | -8.088 | PK |
| 2 | | | 5850.000 | 65.146 | 73.250 | -57.054 | 122.200 | -8.104 | PK |
| 3 | | | 5855.000 | 59.053 | 67.173 | -51.747 | 110.800 | -8.119 | PK |
| 4 | | | 5875.000 | 59.188 | 67.181 | -46.012 | 105.200 | -7.993 | PK |
| 5 | | | 5925.000 | 59.705 | 67.511 | -8.495 | 68.200 | -7.805 | PK |
| 6 | | * | 5936.400 | 60.781 | 68.518 | -7.419 | 68.200 | -7.736 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:48 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Horizontal |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Half BW at channel 5729MHz | |

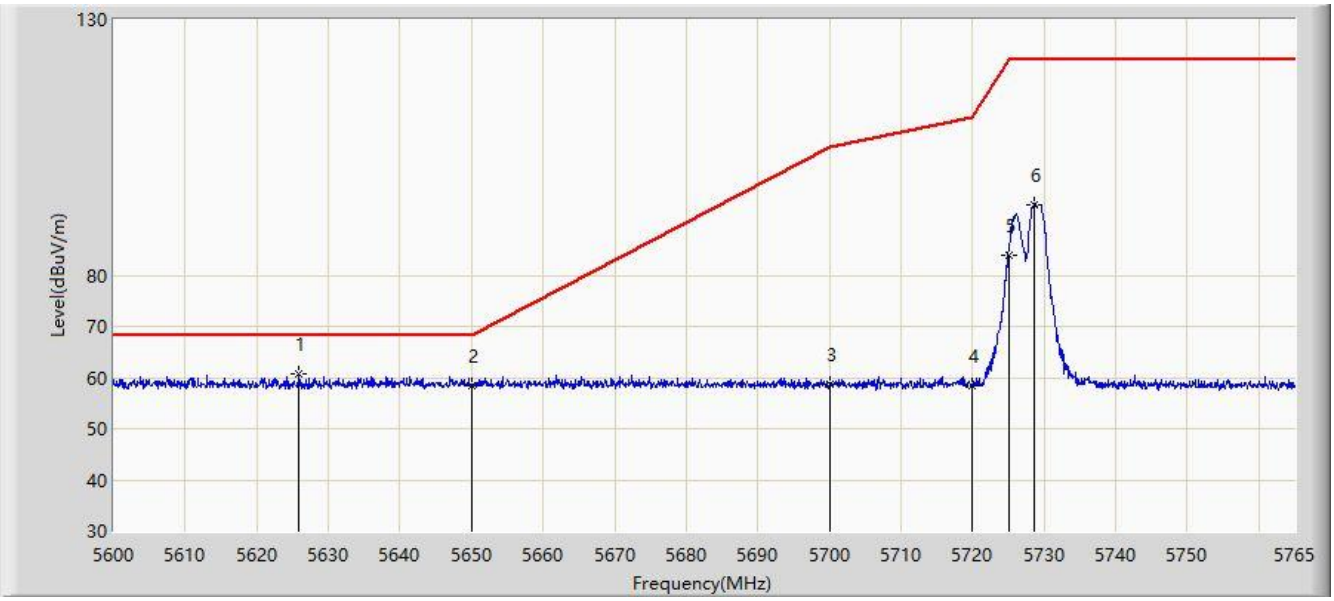



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5631.845 | 60.331 | 68.539 | -7.869 | 68.200 | -8.208 | PK |
| 2 | | | 5650.000 | 60.273 | 68.482 | -7.927 | 68.200 | -8.209 | PK |
| 3 | | | 5700.000 | 58.838 | 67.251 | -46.362 | 105.200 | -8.414 | PK |
| 4 | | | 5720.000 | 64.092 | 72.429 | -46.708 | 110.800 | -8.336 | PK |
| 5 | | | 5725.000 | 98.994 | 107.306 | -23.206 | 122.200 | -8.312 | PK |
| 6 | | | 5728.535 | 106.975 | 115.302 | N/A | N/A | -8.327 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 13:53 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Vertical |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Half BW at channel 5729MHz | |

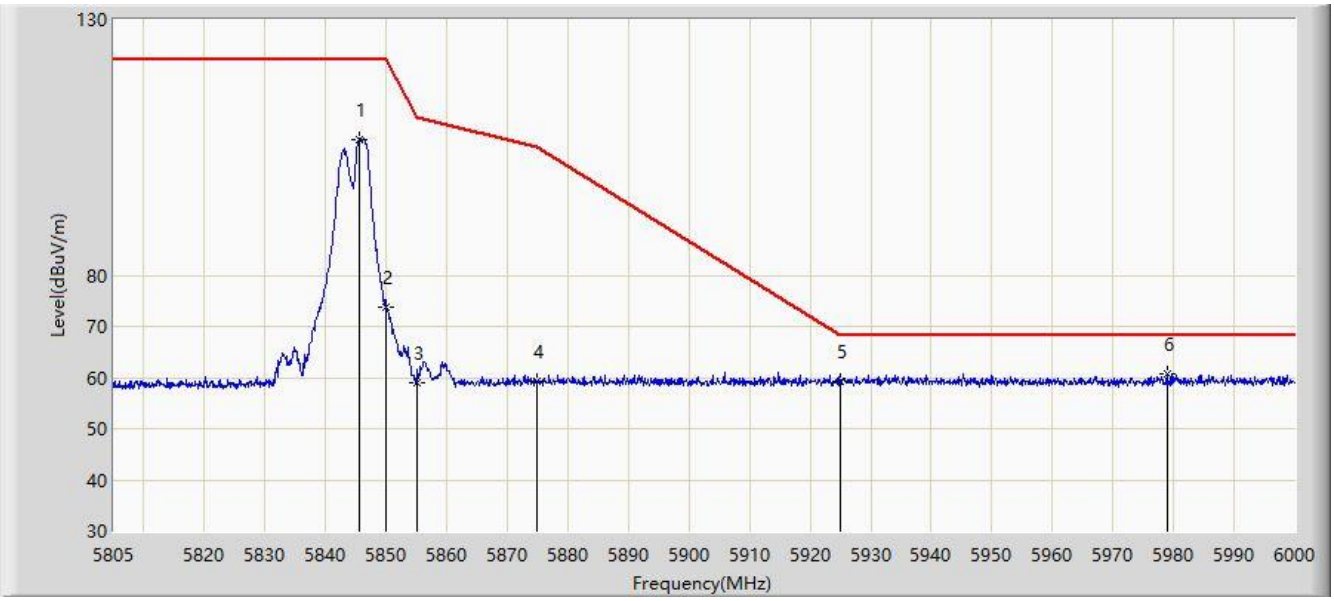



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 5625.905 | 60.683 | 68.922 | -7.517 | 68.200 | -8.239 | PK |
| 2 | | | 5650.000 | 58.541 | 66.750 | -9.659 | 68.200 | -8.209 | PK |
| 3 | | | 5700.000 | 58.568 | 66.981 | -46.632 | 105.200 | -8.414 | PK |
| 4 | | | 5720.000 | 58.406 | 66.743 | -52.394 | 110.800 | -8.336 | PK |
| 5 | | | 5725.000 | 83.925 | 92.237 | -38.275 | 122.200 | -8.312 | PK |
| 6 | | | 5728.535 | 93.833 | 102.160 | N/A | N/A | -8.327 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 14:03 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Horizontal |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Half BW at channel 5846MHz | |

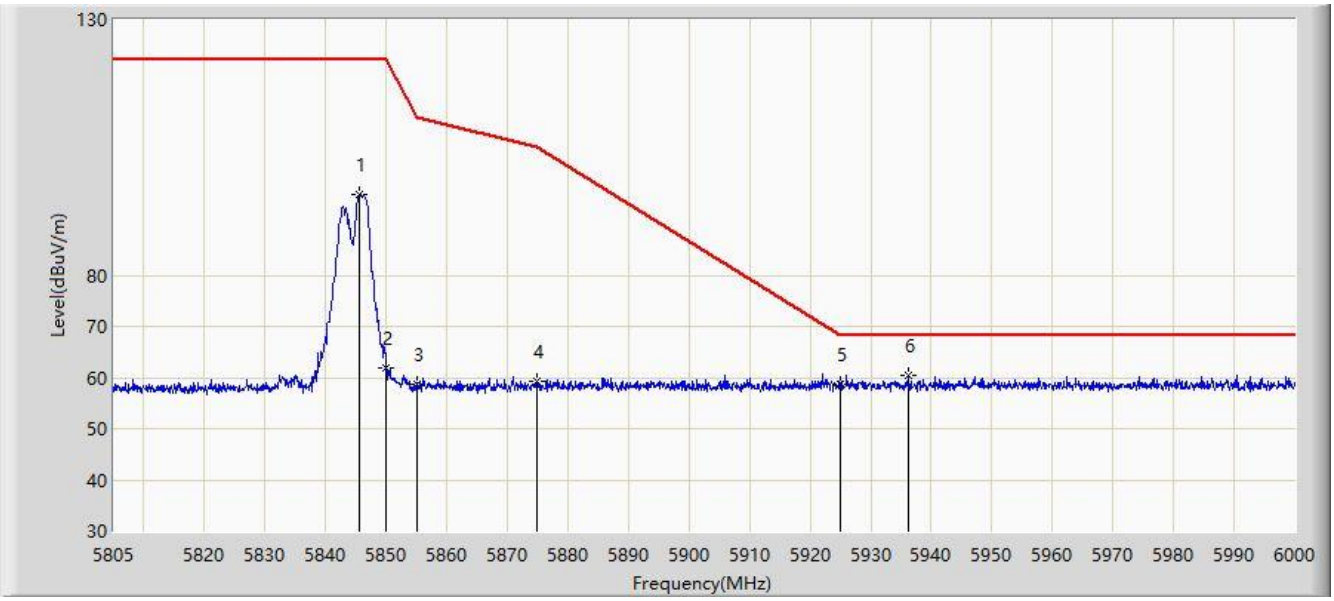



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5845.462 | 106.596 | 114.685 | N/A | N/A | -8.090 | PK |
| 2 | | | 5850.000 | 73.898 | 82.002 | -48.302 | 122.200 | -8.104 | PK |
| 3 | | | 5855.000 | 58.909 | 67.029 | -51.891 | 110.800 | -8.119 | PK |
| 4 | | | 5875.000 | 59.220 | 67.213 | -45.980 | 105.200 | -7.993 | PK |
| 5 | | | 5925.000 | 59.167 | 66.973 | -9.033 | 68.200 | -7.805 | PK |
| 6 | | * | 5978.940 | 60.752 | 68.500 | -7.448 | 68.200 | -7.747 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

| | |
|---|---|
| Site: SIP-AC3 | Time: 2021/03/18 - 14:13 |
| Limit: FCC_Part15.407_RE(3m) | Engineer: White Wang |
| Probe: SIP-AC3_HF907_102861_1-18GHz | Polarity: Vertical |
| EUT: Wireless Bodypack Transmitter | Power: By Battery |
| Test Mode: Transmit by Half BW at channel 5846MHz | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 5845.560 | 95.775 | 103.865 | N/A | N/A | -8.089 | PK |
| 2 | | | 5850.000 | 62.000 | 70.104 | -60.200 | 122.200 | -8.104 | PK |
| 3 | | | 5855.000 | 58.714 | 66.834 | -52.086 | 110.800 | -8.119 | PK |
| 4 | | | 5875.000 | 59.291 | 67.284 | -45.909 | 105.200 | -7.993 | PK |
| 5 | | | 5925.000 | 58.754 | 66.560 | -9.446 | 68.200 | -7.805 | PK |
| 6 | | * | 5936.333 | 60.316 | 68.053 | -7.884 | 68.200 | -7.737 | PK |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

## 6.9. Duty Cycle Factor Measurement

### 6.9.1. Test Requirement

Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval.

The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retrained in the measurement data file for equipment subject to notification or verification.

### 6.9.2. Test Procedures

a. The EUT was set to communicate with GLXD4+ continuously.

b. A horn antenna was positioned at a 3 meter distance from the EUT. The output of the antenna was connected to the input of a spectrum analyzer.

c. The center frequency of the spectrum analyzer was set to the transmit frequency of the EUT.

d. The frequency span of the spectrum analyzer was set to 0Hz so that the time domain trace of the transmitted pulse of the EUT was displayed on the spectrum analyzer.

e. The sweep time of the spectrum analyzer was adjusted so that the beginning and end of a single pulse could be seen on the display of the spectrum analyzer.

f. The single sweep function of the spectrum analyzer was used multiple times to determine the maximum pulse width of the EUT.

g. The maximum pulse width display of the spectrum analyzer was recorded and then plotted using a 'screen dump' utility.

h. The sweep time of the spectrum analyzer was then adjusted to 100msec.

i. The single sweep function of the spectrum analyzer was used multiple times to determine the maximum number of transmitted pulses that occurred in a 100msec time period.

j. The maximum number of pulses transmitted in a 100msec time period was recorded and then plotted using a ‘screen dump’ utility.

k. The duty cycle correction was calculated using the following equation:

Duty Cycle Correction Factor (dB) = D.C. (dB)

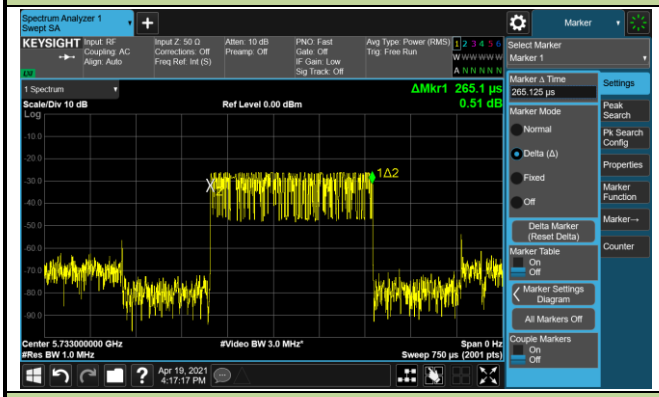
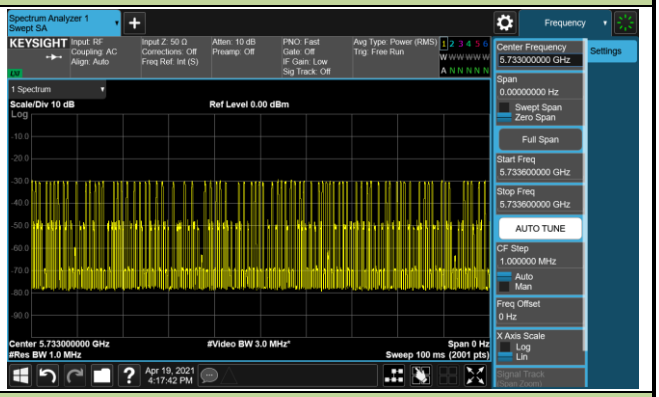
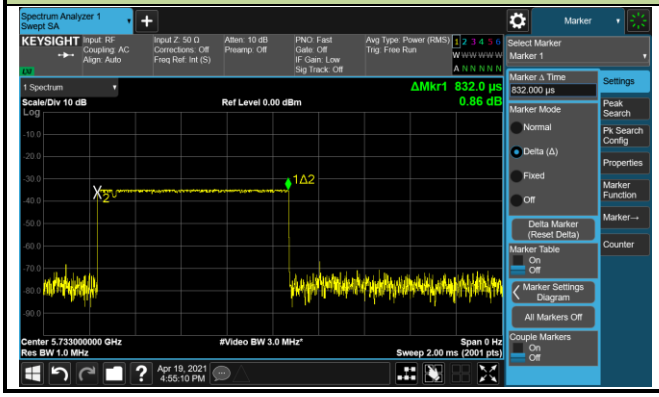
D.C. (dB) = 20 x log (((pulse width (msec))x(#pulses in a 100msecperiod)/100msec)

### 6.9.3. Test Result

| Test Site | SIP-SR5 | Test Engineer | Alisa Deng |
|---|---|---|---|
| Test Date | 2021/04/19 | | |

| Test Mode | Frequency (MHz) | Single Pulse Width (us) | Number of Packet In 100ms | Duty Cycle Factor (dB) |
|---|---|---|---|---|
| Full BW | 5733 | 265.1 | 79 | -13.58 |
| Half BW | 5733 | 832.0 | 34 | -10.97 |

Note: Duty Cycle Correction Factor (dB) = 20 x log (((pulse width (msec)) x (#pulses in a 100msecperiod) / 100msec).

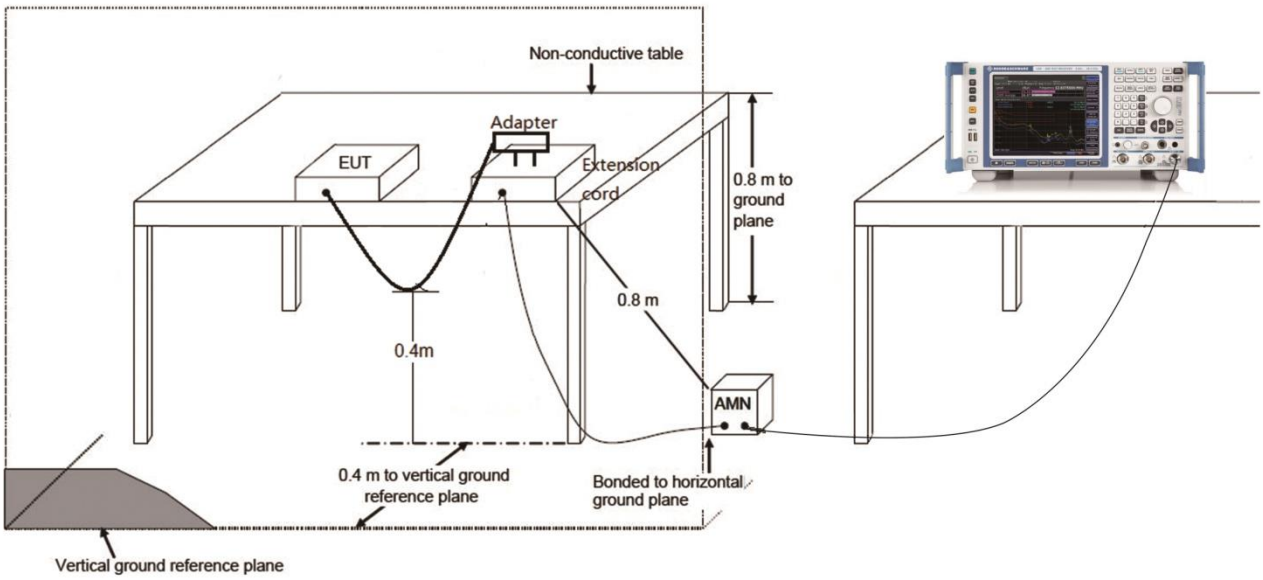
| Full BW, Channel 5733MHz | |
|---|---|
| Pulse Width | 100ms Period |
|  |  |
| **Half BW, Channel 5733MHz** | |
| Pulse Width | 100ms Period |
|  |  |

## 6.10. AC Conducted Emissions Measurement

### 6.10.1. Test Limit

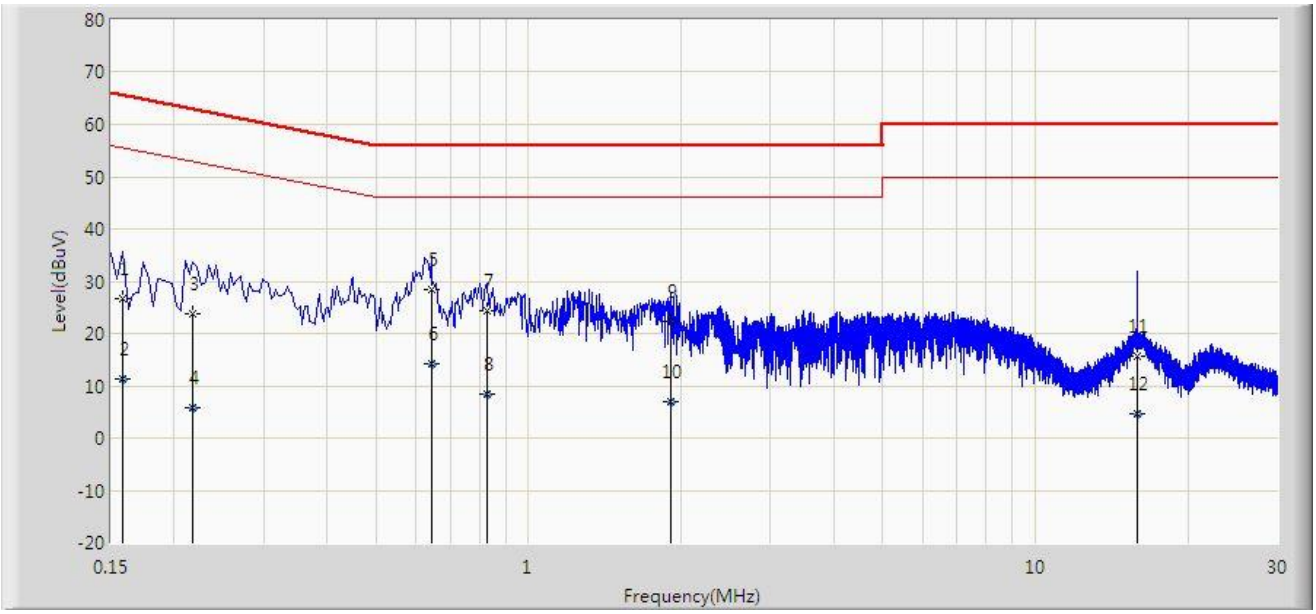
| FCC Part 15 Subpart C Paragraph 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |
| Note 1: The lower limit shall apply at the transition frequencies.<br>Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz. | | |

### 6.10.2. Test Setup



### 6.10.3. Test Result

| | |
|---|---|
| Site: SIP-SR2 | Time: 2021/04/16 - 18:36 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Rupert Wang |
| Probe: SIP-SR2-ENV216_101684_With Connect | Polarity: Line |
| EUT: Wireless Bodypack Transmitter | Power: 120V/60Hz |
| Note: Charging | |

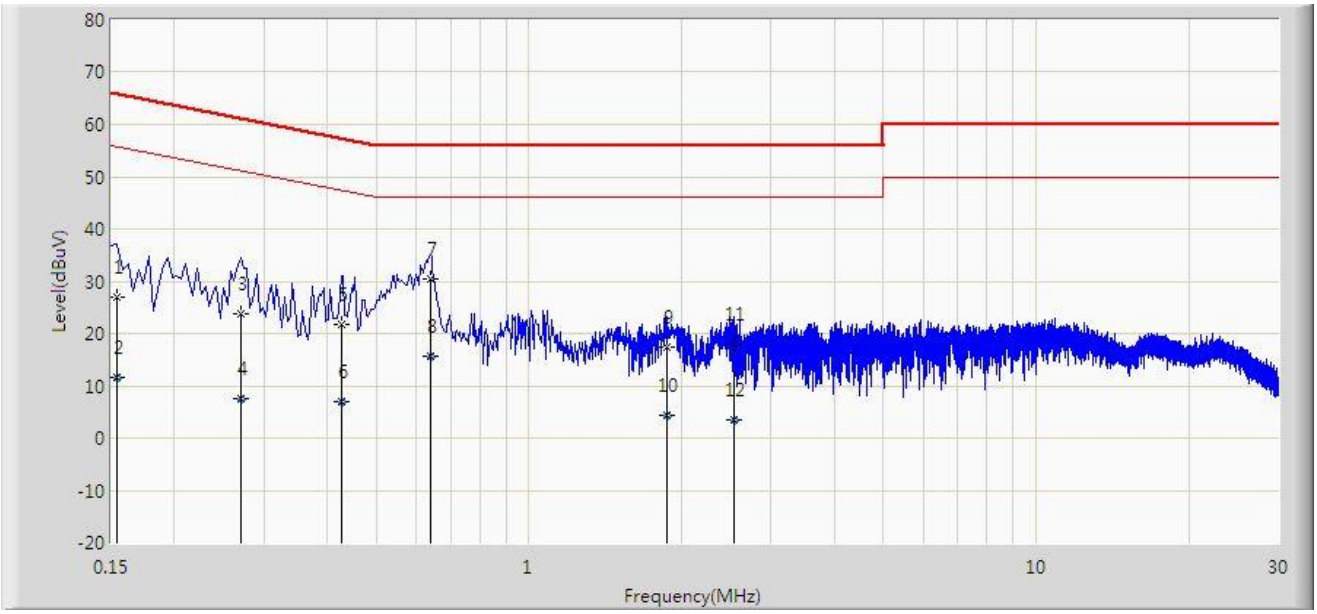



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.158 | 26.601 | 17.149 | -38.968 | 65.568 | 9.452 | QP |
| 2 | | | 0.158 | 11.171 | 1.719 | -44.397 | 55.568 | 9.452 | AV |
| 3 | | | 0.218 | 23.897 | 14.391 | -38.998 | 62.895 | 9.507 | QP |
| 4 | | | 0.218 | 5.812 | -3.695 | -47.083 | 52.895 | 9.507 | AV |
| 5 | | * | 0.642 | 28.463 | 18.903 | -27.537 | 56.000 | 9.560 | QP |
| 6 | | | 0.642 | 14.310 | 4.750 | -31.690 | 46.000 | 9.560 | AV |
| 7 | | | 0.830 | 24.471 | 14.919 | -31.529 | 56.000 | 9.552 | QP |
| 8 | | | 0.830 | 8.472 | -1.080 | -37.528 | 46.000 | 9.552 | AV |
| 9 | | | 1.910 | 22.178 | 12.608 | -33.822 | 56.000 | 9.570 | QP |
| 10 | | | 1.910 | 7.025 | -2.545 | -38.975 | 46.000 | 9.570 | AV |
| 11 | | | 15.930 | 15.571 | 5.373 | -44.429 | 60.000 | 10.198 | QP |
| 12 | | | 15.930 | 4.725 | -5.472 | -45.275 | 50.000 | 10.198 | AV |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

| | |
|---|---|
| Site: SIP-SR2 | Time: 2021/04/16 - 18:40 |
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Rupert Wang |
| Probe: SIP-SR2-ENV216_101684_With Connect | Polarity: Line |
| EUT: Wireless Bodypack Transmitter | Power: 120V/60Hz |
| Note: Charging | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.154 | 27.095 | 17.643 | -38.687 | 65.781 | 9.452 | QP |
| 2 | | | 0.154 | 11.560 | 2.108 | -44.222 | 55.781 | 9.452 | AV |
| 3 | | | 0.270 | 23.790 | 14.266 | -37.328 | 61.118 | 9.524 | QP |
| 4 | | | 0.270 | 7.609 | -1.915 | -43.509 | 51.118 | 9.524 | AV |
| 5 | | | 0.426 | 21.706 | 12.151 | -35.624 | 57.330 | 9.555 | QP |
| 6 | | | 0.426 | 6.888 | -2.667 | -40.443 | 47.330 | 9.555 | AV |
| 7 | | * | 0.638 | 30.367 | 20.807 | -25.633 | 56.000 | 9.560 | QP |
| 8 | | | 0.638 | 15.713 | 6.153 | -30.287 | 46.000 | 9.560 | AV |
| 9 | | | 1.870 | 17.356 | 7.786 | -38.644 | 56.000 | 9.570 | QP |
| 10 | | | 1.870 | 4.325 | -5.245 | -41.675 | 46.000 | 9.570 | AV |
| 11 | | | 2.534 | 17.961 | 8.373 | -38.039 | 56.000 | 9.588 | QP |
| 12 | | | 2.534 | 3.550 | -6.038 | -42.450 | 46.000 | 9.588 | AV |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

# 7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC rules.

The End

# Appendix A - Test Setup Photograph

Refer to “2103RSU004-UT” file.

# Appendix B - EUT Photograph

Refer to “2103RSU004-UE” file.